

**PART B – SECTOR SPECIFIC INFORMATION**  
**WASTE HEAT RECOVERY BASED POWER PROJECT**

**1.0 GENERAL**

1.1 **Proposed Installed Capacity of the Project :**

1.2 **Proposed location of the Project**

Village : \_\_\_\_\_  
 Taluk : \_\_\_\_\_  
 District : \_\_\_\_\_  
 State : \_\_\_\_\_  
 Telephone/Fax : \_\_\_\_\_

1.3 **Accessibility to Proposed Location of the Project**

Particulars	Name	Distance from Project Site (km)
Nearest Tehsil/Block HQ		
Nearest Road Head		
Nearest Railway Station		
Nearest Airport		
Nearest Grid/Substation		

1.4 **Special Category if any – Location based**

Tick as applicable						
NE States & Sikkim	Islands & Estuaries	Hilly Area	Jammu & Kashmir	Deserts	Newly formed states	Not applicable

1.5 **Details of Proposed Project Land (Please tick appropriate)**

Particular	Area	Acquired	Whether land is Mortgagable
Govt. Land			(*)
Pvt. Land			
Forest Land			
Other Specify			
Total			

(\*In case of Govt. Land is not mortgagable, please enclose letter from the concerned Govt. Authority)

## 2.0 TECHNICAL

(Enclose Detailed Project Report)

### 2.1 Details Relating to Resources

#### 2.1.1 Fuel Requirement for the Project

No	Type of Fuel	Required Quantity (Tons)	
		Per Hour	Per Annum
1			
2			
3			
4			

#### 2.1.2 Tie-up of fuel for the project

(in case of Waste Heat Recovery Power Projects)\*\*

No	Type of Fuel	Arrangements of Supply	Quantity / year	Present Selling Price/ Landed Cost (Rs.)
1				
2				
3				

(\*\* Please enclose process flow chart with material balance, utilities and process parameters and necessary supporting documents)

### 2.2 Estimation of Power/ Steam/ By products Generation from the Project

2.21 Electrical Power : \_\_\_\_\_ Million Kwh/year  
2.22 Steam : \_\_\_\_\_ Million Kcal/year  
2.23 By Products, if any : \_\_\_\_\_ Tons/Year

### 2.3 Project Configuration

2.31 No of Boilers :  
2.32 Type & Capacity of Boilers :  
2.33 No of TG Sets & Capacity :  
2.34 No of Generator Transformers & Capacity :

### 2.4 Procurement Procedure

2.41 Basis of selection of the equipment : Single Quotation / RFQ Procedure / Limited Tender / Published Tender / Any Other  
Details of Procurement Procedure followed : (Please enclose Detailed quotation evaluation report) *(Please provide details of procedure adopted)*

2.42 Detailed Quotation Evaluation Report :  Enclosed/  Not Enclosed

## 2.5 Power/ Steam Utilisation Details

2.51 Name of the Plant

1.	:	_____ Mill Kwh/ K Cal
2.	:	_____ Mill Kwh/ K Cal
3.	:	_____ Mill Kwh/ K Cal
4. Surplus Power available for export to grid, if any	:	_____ Mill Kwh

## 2.6 Mode of implementation

2.61 Mode of implementation of the Project :  Self  ESCO (Consultants)  
 EPC  Split Packages  
(Please tick appropriate)

2.62 Details of Technical Consultant engaged, if any for DPR preparation & execution of the project

1. Name and address of the consultant who has prepared the DPR :
2. Telephone :
3. Fax :
4. Contact Person :

## 2.7 Present Energy Consumption Details

2.71 Main Plant Capacity : \_\_\_\_\_  
:

Capacity Utilisation Factor (%) \_\_\_\_\_

2.72 Annual Energy Bill  
i. Power : Rs \_\_\_\_\_  
ii. Fuel : Rs \_\_\_\_\_  
Total Rs \_\_\_\_\_

2.73 Power  
i. Connected Load<sup>#</sup> :: \_\_\_\_\_ KVA  
ii. Annual Consumption<sup>#</sup> : \_\_\_\_\_ Million Kwh/year  
iii. Present Tariff<sup>#</sup> : Rs \_\_\_\_\_ /Kwh  
iv. DG Set Capacity \_\_\_\_\_ KVA  
v. Generation Cost Rs \_\_\_\_\_ / Kwh

2.74 Fuel Consumption : \_\_\_\_\_ MT/year  
Present Cost : Rs \_\_\_\_\_ /MT  
(List all the fuels in use)

<sup>#</sup> (Information given is to be supported by necessary documents and essentially required for Captive Power Plant)

### 3.0 COMMERCIAL

#### 3.1 Project Cost Estimate (Provide both foreign and local currency Cost)

Particulars	Cost (Rs. in lakhs)	Taxes/Duties, if any (Rs. in lakhs)	Total (Rs. in lakhs)
Land Cost & Site Development			
Building and Civil Works			
Plant & machinery			
Training and Technical Know-how Fee			
Miscellaneous Fixed Assets			
Preliminary Expenses			
Installation, Engineering, Consultancy Fee			
Project Management Fee			
Pre-operative Expenses			
Contingency ( %)			
Monitoring & Verification			
Interest During Construction (IDC)			
Margin Money for Working Capital			
Others			
<b>Total Project Cost</b>			

#### 3.2 Proposed Means of Financing

Particulars	Amount (Rs. in lakhs)	%
<b>Promoter's contribution</b>		
Equity Share Capital ( please give break-up of sources)		
Internal Accruals ( please give break-up of sources)		
Unsecured Loan/ Subordinated Loan (Principal and Interest payable after repayment of IREDA's Loan)		
From Promoters, friends, relatives & their associates		
Others, if any - specify		

<b>Term Loan Proposed</b>		
From IREDA		
From Others ( please give details like name of agency/bank, loan amount, interest rate, moratorium, repayment period and current status of sanction)		
<b>Subsidy, if any*</b>		
<b>Others if any, please specify</b>		
<b>Total Project Cost</b>		

\* (Capital subsidy if available will reduce IREDA's loan)

**3.3 Purpose of the proposed project**

a) Captive Consumption	
b) Selling power to sister concern/subsidiary company	
c) Selling power to a utility*	
d) Selling to third party	
(* Please enclose copy of Power Purchase Agreement, as applicable. In case of sale to third party, please enclose copies latest 3 years Annual report of the Company whom you propose to sell power)	

**3.4 Implementation Schedule** : Give PERT Chart separately

<b>Event</b>	<b>Expected date of Completion</b>
Land Acquisition	
Finalisation of Procurement Contract	
Completion of Civil Work	
Delivery of Equipments	
Installation of Equipment	
Test Run	
Technical Commissioning	
Commercial Commissioning	

**3.5 Fund Drawl Schedule**

<b>Amount</b>	<b>Expected date of Drawl</b>	<b>IREDA Loan</b>	<b>Promoters' Contribution</b>

**3.6 Expected month & year of commissioning :** \_\_\_\_\_

**3.7 Assumptions taken for Performance Indicator at point No. 3.7:**

a) Rate of Interest, repayment period (incl. Moratorium) for proposed loan from IREDA : \_\_\_\_\_

b) Rate of Interest, repayment period (incl. Moratorium) for the loan from others, if any : \_\_\_\_\_

c) Plant Load Factor for the Plant :

d) Auxiliary Power Consumption :

e) Net Power available for sale/consumption in Million Units :

f) Tariff Rate escalation per annum : \_\_\_\_\_

g) Fuel cost escalation per annum :

h) Annual O & M Charges : \_\_\_\_\_

i) Annual escalation of O & M Charges : \_\_\_\_\_

j) Wheeling Charges, if applicable

k) Depreciation Buildings : \_\_\_\_\_

l) Depreciation Plant and Machinery : \_\_\_\_\_

m) Corporate Tax : \_\_\_\_\_

n) Minimum alternate tax

o) Any other (Please Specify) : \_\_\_\_\_

**3.8 Performance Indicators :**

a) IRR : \_\_\_\_\_

b) DSCR (Average) : \_\_\_\_\_

c) Pay Back Period : \_\_\_\_\_

(Please enclose detailed cash flow statements if the same are not annexed with the DPR)

#### **4.0 ENVIRONMENTAL BENEFITS**

4.1	Major environmental issues (e.g, forest, land, water, pollution)	
4.2	Area of forest/ agricultural/ tribal land, if any required for the project	
4.3	Is there any village irrigation scheme in the canal/ river/ or any other source from which water is proposed to be drawn	
4.4	Details on afforestation/ deforestation by the project implementation	
4.5	Area/ methodology for fly ash/ effluent any other waste material disposal	

#### **5.0 SOCIAL BENEFITS**

	<b>Particulars</b>	<b>During Construction</b>	<b>After Implementation</b>
5.1	Total Direct Employment		
5.2	Total Indirect Employment		
5.3	Average Monthly Income Person (Rs.)		
5.4	Details of any families, affected/displaced by the project		
5.5	Details of social benefits envisaged through the proposed project		

## 6.0 SECTOR SPECIFIC APPROVALS /DOCUMENTS

Documents/Papers	Obtained/ Enclosed	To be Applied
Approval of SEB/State Govt, if any for the proposed project		
Water Allocation for the project		
Pollution & Environment clearance		
Clearance for chimney height		
PERT Chart and Organisation Chart		
Schematic diagram of the process/system		
EIA Report, if applicable		
Power Purchase Agreement, if sale of power is involved		
Fuel Supply Agreement		
MOU/Agreement with third party etc		
Copy of Order/Agreement already entered into for installation		
Customer reference list of the proposed supplier of major equipment		
Performance Guarantee from Equipment manufacturer		
Copy of Tender floated/Enquiries made regarding plant and machinery		
Summary of the budgetary officers for main plant & machinery		
Note outlining reasons for selection of any particular machine supplier or technology supplier		
Copy of Agreement for Sale/Lease of Land		
Other State/Central Govt, approvals, if any		
Other Clearances (Please Specify)		

**Place :**

**Date :**

**Signature :** \_\_\_\_\_

**Name & Designation :** \_\_\_\_\_

**Rubber Stamp :** \_\_\_\_\_